

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_128472
Title of the Manuscript:	Assessing the Efficacy of Pesticide in Enhancing Growth and Yield of Bottle Gourd while Managing Pest Infestation
Type of the Article	Original Research Article

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The efficacy of imidacloprid, an insecticide was tested. It has the power to improve the morphological characteristics and the yield traits. The experiment is nice. The results may be recommended to the farming community.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes but The words (while Managing Pest Infestation) should be deleted.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes	
Is the manuscript scientifically, correct? Please write here.	Yes but following corrections should be made. In introduction, some references are not required and should be deleted and some references should be incorporated. In materials and methods, RBD with 3 replications with only 4 treatments is not possible at all which should be rectified. The application of insecticide is strongly not recommended during 'just before the first fruit harvesting' due to residue problem. Include reference how pest infestation was count down according to loss estimation and how loss estimation was done. In results and discussion, it is not clear how 'imidacloprid improves growth and productivity by enhancing pest resistance'. Is there any relation between growth and productivity and pest resistance? Please re-check the reference. Too much elaboration of correlation study and path analysis have been done. Please write it only 2-3 sentences like following paragraph otherwise delete it. In table 1, How an insecticide 'imidacloprid' acts as a plant hormone? The different applied doses of this insecticides drastically changed different factors like plant germination, days to 50% flowering, vine length (cm), internodes length (cm), number of nodes per plant, number of leaves and number of primary branches per plant..... etc. factors. Some of the cases the authors have found the significant results. It is not clear to me. However, the RBD is not possible with 4 treatments and 3 replications which has been mentioned in materials and methods. What is the action of imidacloprid? Which insects were managed and where is	

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	<p>the data? How much pest population was reduced by application of imidacloprid?</p> <p>In table 2, This is not clear to me what is the relation between plant germination with other factors viz. days to 50% flowering, vine length (cm), internodes length (cm), number of nodes per plant, number of leaves and number of primary branches per plant, etc. Like wise days to 50% flowering is not interlinked at all with vine length (cm), internodes length (cm), number of nodes per plant, number of leaves and number of primary branches per plant. How the days to first fruit harvest, duration of the crop etc. factors are related with other factors?</p> <p>The phenotypic correlation is not required in between the traits where there is no relation.</p> <p>In table 3, This is not clear to me what is the relation between plant germination with other factors viz. days to 50% flowering, vine length (cm), internodes length (cm), number of nodes per plant, number of leaves and number of primary branches per plant. Like wise days to 50% flowering is not interlinked at all with vine length (cm), internodes length (cm), number of nodes per plant, number of leaves and number of primary branches per plant.</p> <p>The path analysis is not required in between the traits where there is no relation.</p>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments	PLEASE SEE ATTACHMENT	

PART 2:

	<u>Reviewer's comment</u>	<u>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</u>
<u>Are there ethical issues in this manuscript?</u>	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	

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